

CLAIM SUMMARY DOCUMENT

Claims 1-5 (Canceled).

6. (Currently Amended) ~~Method~~ A method of making a heat resistant FeCrAl-alloy with improved oxidation resistance, the method comprising: ~~characterized in~~ applying a Ca-containing layer on the surface of the alloy and heat treating in one or several steps.

7. (Currently Amended) ~~Method~~ The method according to claim 6, ~~characterized in that heat treatment is performed~~ further comprising heat treating the alloy at a temperature of between 800°C and 1200°C, ~~preferably between 850°C and 1150°C~~ in an oxidizing atmosphere.

8. (Currently Amended) ~~Method~~ The method according to ~~any of the claims 6 and 9,~~ claim 6, ~~wherein~~ the Ca-containing layer is applied ~~is in the form of~~ as a Ca-containing compound in the form of calcium carbonate, calcium nitrate, calcium stearate, calcium-rich colloidal dispersion or in the form of calcium oxide or mixtures of such oxides or ~~in combination~~ combinations thereof.

9. (Currently Amended) ~~Method~~ The method according to ~~any of the claims 6-8,~~ claim 6, ~~wherein~~ the Ca-containing compound is applied to a FeCrAl alloy ~~in~~ to form a foil.

10. ~~Method~~ The method according to ~~any of the claims 1 and 8 to 9,~~
~~characterized in that claim 6, wherein~~ the Ca-containing compound is applied by Physical
Vapor Deposition (~~PVD~~) methods.

Claim 11 (Canceled).

12. (New) The method of claim 6, wherein the heat treatment is performed at
850-1150°C.